

**REMARKS**

Claims 1-14, 16-26, 28-31 and 33-37 stand allowed. Applicant has amended claims 14, 29 and 29 without prejudice and without acquiescence. The amendments add no new matter. Applicant has amended the claims for clarity. Accordingly, Applicant asserts that is amendment does not raise issues of scope of new matter.

Yet further, Applicant received from the Examiner on February 10, 2003, that the substitute drawings submitted on August 7, 2002 were acceptable (a copy is attached hereto).

Thus, Applicant believes that all outstanding issues with respect to the drawings have been met.

Applicant has attached as Appendix A a marked-up version of the claims showing - the amendments contained herein. Also, for the convenience of the Examiner, Applicant has attached as Appendix B a clean copy of the pending claims with the amendments contained herein.

Applicant respectfully requests entry of the proposed amendments. Applicant believes no fee is due with this response. However, if a fee is due, please charge our Deposit Account No. 06-2375, under Order No. 10203693 from which the undersigned is authorized to draw.

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Respectfully submitted,

By 

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**Appendix A**  
**Version With Markings to Show Changes Made**

14. A method of viewing phenotypic and genotypic data related to a non-human animal comprising the steps of:

viewing, using a computer, both phenotypic data and genotypic data for a non-human animal;

receiving in a database of a central database processing resource related to the computer, data relating to the phenotype data of the animal and receiving in the database of the central data processing resource, genotypic data relating to the breed of the animal and genetic background of the animal;

analyzing, using a computer, the phenotypic data and the genotypic data based on predetermined characteristics; and

reporting the analysis of the phenotypic data and genotypic data.

~~receiving in a database of a central database processing resource related to the computer, data relating to the phenotype data of the animal and receiving in the database of the central data processing resource, genotypic data relating to the breed of the animal and genetic background of the animal.~~

26. Apparatus comprising

a screen for monitoring, using a computer, both phenotypic data and genotypic data for a non-human animal,

a computer for analyzing the phenotypic data and the genotypic data based on predetermined characteristics;

a means for receiving in a database of a central database processing resource, phenotypic data relating to a health assessment of the animal and receiving in the database of the central database processing resource, genotypic data relating to the breed of the animal and the genetic background of the animal; and

a communications network for reporting the analysis of the phenotypic data and genotypic data;

~~a means for receiving in a database of a central database processing resource, phenotypic data relating to a health assessment of the animal and receiving in the database of the central database processing resource, genotypic data relating to the breed of the animal and the genetic background of the animal.~~

29. A computer-readable medium having stored thereon instructions for a computer to access the medium comprising:

instructions to access data on the medium,

a first database on the medium related to genotypic data of a non-human animal,

a second database on the medium related to phenotypic data of the animal; and

the computer-readable medium including instructions to analyze the first and second database, wherein the instructions ~~comprise~~ are selected from the group ~~to~~-consisting of predicting health, predicting disease probabilities, predicting disorder probabilities ~~or~~ and longevity of the animal.

**Appendix B**  
**Allowed Claims with the Amendments**

1. A method of communicating phenotypic and genotypic data related to a non-human animal, the data communication being between a central database processing resource and at least one remote user, the method comprising the steps of:

receiving an access request message from a remote user via a communications link;

transmitting an access enabling message to the remote user via the communications link wherein the remote user is authorized to access the database, the access enabling message permitting the remote user to access the database and access designated data from the database, the data in the database including phenotypic and genotypic data related to the animal;

analyzing the phenotypic and genotypic data related to the animal;

compiling a report based on the analysis of the phenotypic and genotypic data of the animal; and

transmitting the compiled report of the phenotypic and genotypic data of the animal to the remote user.

2. The method of claim 1, comprising the steps of verifying that the access to the database is authorized.

3. The method of claim 1, including periodically updating the database with at least one phenotypic or genotypic data about the animal.

5. The method of claim 1, comprising the step of storing the report in the central database resource.

6. The method of claim 1, including controlling access to the central database resource, and wherein data in the database is accessible to selected multiple remote clients.

7. The method of claim 6, including the step of verifying that selected remote clients are authorized to access the database or selected data in the database.

8. The method of claim 1, including interpreting the phenotypic and genotypic data the animal thereby predicting health, disease probabilities, disorder probabilities or longevity of the animal.

9. The method of claim 1, including sending an access request message from the remote user via a communications link, and the communications link is selectively a computer network.

10. The method of claim 1, including receiving a biological specimen result of the animal, storing, retrieving, comparing, and analyzing the biological specimen thereby obtaining phenotypic data of the animal.

11. The method of claim 1, including encrypting the phenotypic and genotypic data.

12. The method of claim 1, including the steps of communicating between a remote user and the central database processing resource through a computer network, providing credit card information of the remote user prior to providing at least one of phenotypic or genotypic data of the animal and transferring such data to the remote user after charging a credit card for such data.

13. The method of claim 1, including transferring money electronically via a telecommunications line between respective financial entities related to the remote user and to an operator of the central database, and, after transfer of money electronically, providing data from the central database to the remote user.

14. A method of viewing phenotypic and genotypic data related to a non-human animal comprising the steps of:

viewing, using a computer, both phenotypic data and genotypic data for a non-human animal;

receiving in a database of a central database processing resource related to the computer, data relating to the phenotype data of the animal and receiving in the database of the central data processing resource, genotypic data relating to the breed of the animal and genetic background of the animal;

analyzing, using a computer, the phenotypic data and the genotypic data based on predetermined characteristics; and

reporting the analysis of the phenotypic data and genotypic data.

16. The method of claim 14, wherein a remote user of a database including phenotypic data and/ genotypic data pays for at least one of an analysis of phenotypic or genotypic data through a computer network, and including submitting the report to a remote user after receipt of the payment.

17. The method of claim 14, including submitting a health assessment to a database related to the computer, the health assessment being selected by a remote user.

18. The method of claim 14, wherein the reporting is to a remote user, the remote user being at a site removed from a central database related to the computer and using a communication link between the central database and the remote user, the communication link including an Internet link.

19. Apparatus for communicating phenotypic and genotypic data related to a non-human animal, comprising

a computer communication network for data communication being between a central database processing resource and at least one remote user,

means for receiving an access request message from a remote user via the communications link;

means for transmitting an access enabling message to the remote user via the communications link wherein the remote user is authorized to access the database, the access enabling message permitting the remote user to access the database and access designated data from the database, the data in the database including phenotypic and genotypic data related to the animal;

means for analyzing the phenotypic and genotypic data related to the animal;

means for compiling a report based on the analysis phenotypic and genotypic data of the animal; and

means for transmitting the compiled report of the phenotypic and genotypic data of the animal to the remote user.

20. The apparatus of claim 19, comprising means for verifying that the access to the database is authorized.

22. The apparatus of claim 19, comprising means for storing the report in the central database processing resource.

23. The apparatus of claim 19, including means for controlling access to the central database processing resource to selected multiple remote clients.

24. The apparatus of claim 19, including means for interpreting the phenotypic and genotypic data, and means to permit an analysis of the interpreted data thereby predicting health, disease probabilities, disorder probabilities or longevity of the animal.

25. The apparatus of claim 19, including means of communicating between a remote user and the central database processing resource through a computer network, means for providing credit card information of the remote user prior to providing at least one of

phenotypic or genotypic data and transferring such data to the remote user after charging a credit card for such data.

26. Apparatus comprising

a screen for monitoring, using a computer, both phenotypic data and genotypic data for a non-human animal,

a computer for analyzing the phenotypic data and the genotypic data based on predetermined characteristics;

a means for receiving in a database of a central database processing resource, phenotypic data relating to a health assessment of the animal and receiving in the database of the central database processing resource, genotypic data relating to the breed of the animal and the genetic background of the animal; and

a communications network for reporting the analysis of the phenotypic data and genotypic data.

28. The apparatus of claim 26, including means for permitting a remote user of the database to pay for an analysis of the health profile and genetic screening tests through a computer network, and including a computer communication network for submitting the report to a remote user after receipt of the payment.

29. A computer-readable medium having stored thereon instructions for a computer to access the medium comprising:

instructions to access data on the medium,

a first database on the medium related to genotypic data of a non-human animal,

a second database on the medium related to phenotypic data of the animal; and

the computer-readable medium including instructions to analyze the first and second database, wherein the instructions are selected from the group consisting of predicting health, predicting disease probabilities, predicting disorder probabilities and longevity of the animal.

30. The medium as claimed in claim 29 wherein the phenotypic data includes biological laboratory test data relating to a health assessment of a the animal.

31. The medium of claim 30, including analysis data of the phenotypic and genotypic data related to the animal, and a report based on the analysis data.

33. The medium of claim 29, including data for permitting communication between a remote user and a central database processing resource through a computer network, data for permitting access through approved access codes, such data selectively

including a credit card information of a user prior to providing a communication access to the database storage system of at least one of phenotypic or genotypic data.

34. A system for reporting the analysis of phenotypic data and genotypic data of a non-human animal comprising:

a computer based communications network,

a computer at a central database processing resource provider to receive through the network, phenotypic data for the animal, the phenotypic data including physical characteristics and health assessment data, and genotypic data about the animal the genotypic data including genetic background, genomic mapping and genetic screening data,

a screen for monitoring, using a computer, both the phenotypic data of the animal, and the genotypic data about the animal,

a computer for analyzing the phenotypic data and the genotypic data based on predetermined characteristics, and

a computer for receiving, through the network, the analysis.

35. The system of claim 34, including receiving in a database of a central database processing resource, phenotypic data relating to a health assessment of the animal and receiving in the database of the central data processing resource, genotypic data relating to the genomic map, genetic background, and genetic screening information about the animal.

36. The system of claim 34, including permitting a remote user of the network to pay for an analysis of phenotypic and genotypic data through the computer network, and including permitting the computer communications network to submit the report to the remote user after receipt of the payment.

37. The method of claim 9, wherein the computer network includes the Internet.